

CLAIMS

What is claimed is:

1. A stamper forming method for manufacturing a stamper, comprising:

forming a photoresist layer on a substrate;

forming a patterned semi-blocked layer on the photoresist layer;

exposing the photoresist layer with a light beam, wherein the semi-blocked layer decays the intensity of the light beam so as to partially block the light beam;

developing the photoresist layer; and

sputtering towards the photoresist layer to form a metal layer.
2. The method of claim 1, wherein the stamper comprises a readable embossed area and an unreadable embossed area, and the semi-blocked layer is formed on the readable embossed area and is not formed on the unreadable embossed area.
3. The method of claim 2, wherein the stamper further comprises a data area, and the semi-blocked layer is further formed on the data area.
4. The method of claim 1, further comprising:

stripping the semi-blocked layer before developing the photoresist layer.
5. The method of claim 1, wherein the semi-blocked layer is a semi-reflecting layer.
6. The method of claim 5, wherein the semi-blocked consists of silver.
7. The method of claim 1, wherein the substrate is a glass substrate.

8. The method of claim 1, wherein the light beam directly exposes a part of the photoresist layer, and the semi-blocked layer does not cover the part of the photoresist.
9. The method of claim 1, wherein the light beam partially passes through the semi-blocked layer to expose a part of the photoresist layer located underneath the semi-blocked layer.
10. The method of claim 1, wherein the metal layer is made of a NiV alloy.
11. The method of claim 1, wherein the stamper is an optical disc stamper.